CONTENTS OF PREVIOUS VOLUMES

VOLUME 1

Prompt Alpha and Reactivity Measurements on Fast Metal Assemblies, J. T. MIHALCZO; The Separation Nozzle Process for Enrichment of Uranium-235, E. W. BECKER; Electromagnetic Flowmeters for Fast Reactors, R. C. BAKER; The Insurance of Nuclear Installations, H. W. FANCIS; Noise Analysis Experience of a BWR Power Plant, K. FUKUNISHI, M. IZUMI, K. KATOH, S. KOBAYASHI, and T. DOI; A Study of Two-Phase Flow Characteristics Using Reactor Noise Techniques, R. D. CROWE, S. W. EISENHAWER, F. D. MCAFEE, and K. W. ALBRECHT; Investigation of the Local Component of the Neutron Noise in a BWR and its Application to the Study of Two-Phase Flow, G. KÓSALY, LJ. KOSTIĆ, L. MITEFF, G. VARADI, and K. BEHRINGER; Identification of Neutron Noise Sources in a Boiling Water Reactor, W. H. SIDES, JR.; Experimental Studies of Core Flow Fluctuations and Neutron Noise in a BWR, K. MATSUBARA, R. OGUMA, and M. KITAMURA; Description of Void Effects in a Large BWR by Means of a Stochastic Theory and Simulation in a Zero Power Reactor, M. MATTHEY; BWR Simulation Diagnosis by Noise Analysis, Y. ANDO, S. KANEMOTO, Y. TAKIGAWA, and A. TANABE; Characterization Studies of BWR-4 Neutron Noise Analysis Spectra, M. V. MATHIS, C. M. SMITH, D. N. FRY, and M. L. DAILEY; Observation of In-Core Instrument Tube Vibrations in a Boiling Water Reactor by Evaluating Reactor Noise Data; K. BEHRINGER, LJ. KOSTIC, and W. SEIFRITZ; Experimental and Theoretical Noise Analysis Investigations in Boiling Water Reactors, P. GEBURECK, O. P. SINGH, and D. STEGEMANN; Experimental and Numerical Investigation of the Local and Global Components of Boiling Noise, J. VALKÓ and L. MESKÓ; A New Correlation Method for Transit-Time Estimation, H. NISHIHARA and H. KONISHI; Identification of BWR Dynamics from Autoregressive Analysis of Multivariable Experiments, M. KITAMURA, K. MATSUBARA, and R. OGUMA; Course-Graining of Fluctuations and Preservation of Normality, K. SAITO; Analysis of Irreversible Circulation of Reactor Noise, K. KISHIDA, N. YAMADA, T. SEKIYA, M. UTSURO and Y. KIMURA; Consideration on the Coherence Functions of At-Power Reactor Noise, Y. KURODA and M. YAMAGUCHI; Reactivity Effects and Space-Domain Noise Caused by Randomly Dispersed Nuclei in a Reactor Core; H. VAN DAM; Neutron Noise Sources in PWRs, J. A. THIE; Borssele PWR Noise: Measurements, Analysis and Interpretation, E. TÜRKCAN and J. B. DRAGT; Improved PWR Neutron Noise Interpretation Based on Detailed Vibration Analysis, D. WACH and R. SUNDER; Investigations on the Vibrative Excitation of PWR Pressure Vessel and Internals by Pressure Noise Analysis and Model Calculations, V. BAUERNFEIND; Neutron Noise Monitoring of Pressurized Water Reactor Internal Vibrations, C. W. MAYO and R. L. CURRIE; Monitoring of Core Support Barrel Motion in PWRs Using Ex-Core Detectors, J. C. ROBINSON, J. W. HARDY, G. R. SHAMBLIN, and C. L. WOLFF; Analysis of Changes with Operating Time in the Calvert Cliffs Unit 1 Neutron Noise Signals, J. H. STEELMAN and B. T. LUBIN; The Development of Techniques for the Surveillance of LMFBRs, E. J. BURTON, P. G. BENTLEY, J. BISHOP, I D. MACLEOD, and J. A. MCKNIGHT; Boiling Detection in Fast Reactors by Noise Analysis. Studies Performed in France, G. LE GUILLOU, R. BERGER, and M. BRUNET; Noise Analysis Performed at the Sodium Cooled Power Reactor KNK I for Malfunction Diagnosis and Plant Surveillance, P. HOPPÉ and F. MITZEL; The Detection of Sodium Vapor Bubble Collapse in a Liquid Metal Fast Breeder Reactor, W. M. CAREY, A. P. GAVIN, J. P. BOBIS, S. H. SHEEN, T. T. ANDERSON, R. D. DOOLITTLE, and R. W. ALBRECHT; Acoustic Detection of Boiling in LMFBRs; An Estimate of Sensitivity Derived from Experiments During the Commissioning of PFR, I. D. MACLEOD, E. CATLING, and C. G. TAYLOR; Neutron Noise Induced by Vibration on the French Phenix LMFBR, Y. TIGEOT and G. LE GUILLOU; Results of the Temperature Noise Measurements in Subchannels of Sodium Cooled Electrically Heated 28 Rod Bundle Behind a Blockage, E. TURKCAN; Detection of Local Boiling in an LMFBR Subassembly by Temperature Fluctuations Analysis at the Outlet, L. KREBS and G. WEINKÖTZ; Results of Acoustic and Temperature Noise Measurements on Sodium Cooled Electrically Heated, 7-Rod Bundle, T. BISERNA, F. CAVALLINI, S. TAGLIENTI, and V. TOST; A Monte Carlo Approach to the Theoretical Prediction of Temperature Noise in LMFBR Sub-Assemblies; D. FIRTH; Noise and D.C. Balanced Outlet Temperature Signals for Monitoring Coolant Flow in LMFBR Fuel Elements, M. EDELMANN; Determination of Thermocouple Transfer Functions and Fluid Flow Velocities by Temperature Noise Measurements in Liquid Sodium, J. BENKERT, C. MIKA, K. H. RAES, and D. STEGEMANN; Potential U.S. Contributions to In-Reactor Experiments for Fast Reactor Surveillance Systems, R. W. ALBRECHT; Proposal of Application of Some Newly Developing Techniques to Power-Reactor Noise Analysis, H. KATAOKA; Noise Measurements on the KEMA Suspension Test Reactor (KSTR) and the Dodewaard Boiling Water Reactor, J. HOESKSTRA and J. H. C. V.D. VEER; Malfunction Detection of Nuclear Reactor by Dynamic Data System Methodology, M. C. CHOW, S. M. WU, and D. G. CAIN; The Autoregression Time-Series Model for Analysis of a Noisy Signal, J. W. ALLEN; Decomposition of Noise Signals Composed of Many Similar Components, A. GRABNER, P. LIEWERS, P. SCHUMANN, and F. P. WEISS; Estimation and Reduction of Errors in Flow Measurements Which Use Cross-Correlation Techniques, H. BAZERGHI and K. J. ERDULA; Analysis of Pool-Type Reactor Noise, G. C. VAN UITERT and H. VAN DAM; Experience in Loose Parts Monitoring and Operating Nuclear Power Plants, G. L. ZIGLER and D. M. STEVENS; An On-Line Computerized Reactor Noise, Vibration and Loose Parts Monitoring System, P. J. PEKRUL; Loose-Parts Monitoring: Present Status of the Technology and Its

Implementation in U.S. Reactors, R. C. KRYTER, C. W. RRICKER, and J. E. JONES; Acoustic Emission Surveillance for Improving Availability of Nuclear Power Plants, W. F. HARTMAN and J. W. MCELROY; Detection of Acoustic Emission Events in the Presence of Parasitic Noise, R. FUGE; The Development of Noise Analysis Techniques in the Surveillance of DFR, F. J. BARCLAY and D. TAIT; Review of Noise Analysis in Poland, A. T. MIKULSKI; Diagnosis of Sub-Harmonic Vibrations in Rotating Machinery, J. E. MOTT; A Noise Pattern Library Effort in Japan, K. SAITO; Automated Machinery Surveillance and Diagnostics, D. S. WILSON and J. FRAREY; Nuclear Power Plant Operational Diagnostics and Control, L. G. KEMENY; On-Line Surveillance of LWR Primary Systems. State of the Art and Development Trends of Vibration, Loose Parts and Leakage Monitoring Systems in the FRG, W. H. DIO, H. STOELBEN, W. BASTL, D. WACH, and R. RAIBLE; Experiences With Diagnostic Instrumentation in Nuclear Power Plants, R. GOPAL and W. CIARAMITARO; A Statistical Algorithm to Perform Automated Signature Analysis on Power Spectral Density Data, K. R. PIETY; SMORN-II Summary; An Overview and a Gaze into the Future, R. S. BOOTH.

VOLUME 2

The Use of Nuclear Energy for District Heating, P. MARGEN; Hazards and Control of Ruthenium in the Nuclear Fuel Cycle, G. G. EICHHOLZ; Radioactive Releases from Nuclear Installations: Evaluation of Accidental Atmospheric Discharges, R. H. CLARKE and H. F. MACDONALD; Some Aspects of System Chemistry of BWRs, G. C. W. COMLEY; Models for Estimation of Critical Flow in Two-Phase Systems, J. WEISMAN and A. TENTNER; Progress in Liquid-Metal Fast Breeder Reactor Safety Research and Development — an Overview of the Issues, M. H. FONTANA; Radiation Damage in Graphite and its Relevance to Reactor Design, B. T. KELLY.

VOLUME 3

The Role of the Boltzmann Transport Equations in Radiation Damage Calculations, M. M. R. WILLIAMS; Gamma-Ray Spectral Penetrations: A Review, G. B. BISHOP; Evaluation of the ^{238}U Neutron Cross-Sections for Incident Neutron Energies up to 4 keV, G. DE SAUSSURE, D. K. OLSEN, R. B. PEREZ and F. C. DIFILIPPO; Evaluation of Decay Heating in Shutdown Reactors, V. E. SCHROCK; Source Papers in Reactor Noise, K. SAITO; Chemical Analysis of Atmospheric Aerosols by Instrumental Neutron Actuation, R. HEINDRYCKX and R. DAMS.

VOLUME 4

Radon: Characteristics, Natural Occurrence, Technological Enhancement, and Health Effects, B. L. COHEN; Flow-Induced Vibration in Nuclear Reactors: A Review, R. D. BLEVINS; Water Reactor Safety Research, L. S. TONG; New Applications of the Collision Probability Method in Neutron Transport Theory, T. LEFVERT; Integral Testing of Thorium and ^{233} U Data for Thermal Reactors, J. HARDY, JR., J. J. ULLO and N. M. STEEN; Nuclear Power Plant Licensing Procedures in the United Kingdom, T. P. HAIRE and J. SHAW; Source Papers in Hot Atom Chemistry, G. N. Walton; Accident Analyses Performed for the Norwegian Commission on Nuclear Power, U. TVETEN, D. THOMASSEN and E. KVAAL.

VOLUME 5

Decay Heat, A. TOBIAS; Resonance Absorption Calculations in Thermal Reactors, W. ROTHENSTEIN; Noise Investigations in Boiling-Water and Pressurized-Water Reactors, G. KOSÁLY; Fast Reactor Burnup and Breeding Calculation Methodology, K. O. OTT and R. C. BORG; The Historical Development of Heat Transfer Surfaces for Gas-Cooled Reactors Analysed with a Simple Criterion, D. C. LESLIE; Evaluation of Differential Nuclear Data for Americium Isotopes. Part I: ^{241}Am, J. E. LYNN, B. H. PATRICK, M. G. SOWERBY and E. M. BOWEY.

VOLUME 6

Technical Assessment Task Force Reports Vol I—Summary, L. JAFFEE; Technical Assessment Task Force Reports Vol II—Chemistry, R. E. ENGLISH: Technical Assessment Task Force Reports Vol II—WASH 1400—Reactor Safety Study, R. D. BURNS, III; Technical Assessment Task Force Reports Vol III—Selection, Training, Qualification, and Licensing of Three Mile Island Reactor Operating Personnel, R. EYTCHISON; Technical Assessment Task Force Reports Vol

CONTENTS OF SOME PREVIOUS VOLUMES

VOLUME 7

Angular Current Approximations in Neutron Transport Calculations using Interface Currents—A Review, P. MOHANAKRISHANAN; Radiation Damage in Non-Fissile Metallic Alloys, F. A. NICHOLS; On the Solution of the Dispersion Equation for Monoenergetic Neutron Transport with Linearly Anisotropic Scattering, V. PROTOPOPESCU and N. G. SJOSTRAND; Acoustic Emission Events from Sodium Vapour Bubble Collapsing: A Stochastic Model, A. COLOMBINO, G. DENTICO, C. GALLI, N. PACILIO, B. PAPALIA, S. TAGLIENTI, V. TOSI and A. VIGO; Special Section on Nuclear Power and its Regulation in the United States, Guest Editor L. M. MUNTZING; The Future of Nuclear Power in the United States, L. M. MUNTZING; Nuclear Power: A Greek Tragedy? J. AHEARNE; Strengthening the Management of the Nuclear Regulatory Commission, H. WELLFORD; A Legislator's View of the Nuclear Option, M. K. UDALL; Nuclear Regulation After Three Mile Island, F. W. LEWIS; Scope and Functions of the U.S. Nuclear Safety Analysis Center, E. I. ZEBROSKI; INPO the Nuclear Man-Machine Interface, E. P. WILKINSON: Financial Support for Nuclear Power Plants, K. HOLLISTER; Nodal Methods for Three-Dimensional Simulators, N. K. GUPTA; Fast Critical Experiments, H. C. PAXTON; Thermal Conduction via the Transport Equation with Applications to Laser-Fusion, S. E. ROUSE and M. M. R. WILLIAMS; Core Temperature Transient in the Early Phase of Core Uncovering at TMI-2, K. H. ARDRON and D. G. CAIN.

VOLUME 8

The Theory of Uranium Enrichment by the Gas Centrifuge, D. R. OLANDER; A Review of the Utilization of Energetic Ions for the Production of Excited Atomic and Molecular States and Chemical Synthesis, M. A. PRELAS and S. K. LOYALKA; The Publications of Boris Davison and Some Reminiscences of the Man, M. M. R. WILLIAMS, S. A. KUSHNERIUK, B. BAY, W. H. WATSON and R. E. PEIERLS; Summary of the Seventh Conference on Transport Theory, P. NELSON and H. D. VICTORY, JR; Hilbert and Chapman-Enskog Asymptotic Expansion Methods for Linear Evolution Equations, J. MIKA; Probability Methods in Homogenization Schemes for Transport Processes, M. WILLIAMS; Automorphism Theorems and Half-Range Theory, H. G. KAPER; Stiff Variational Problem in Linear Transport Theory, M. BORYSIEWICZ; Invariant Imbedding for Curved Geometries and Completeness of the Eigenfunctions of the Angular Redistribution Operator, P. NELSON; Absorber Blackness and Extrapolation Distance, R. ARONSON; Spectrum of Vlasov-Fokker-Planck Operator, P. F. ZWEIFEL and J. OHLMANN; Multiple Collision Solution of the Linearized Vlasov Equation, B. D. GANAPOL; Aspects of Fokker-Planck Transport, N. CORNGOLD; Kinetic Equations in Weak Topologies, W. GREENBERG; Some Nonlinear Problems in Transport Theory, V. C. BOFFI and V. G. MOLNARI; New Results and Open Problems in the Theory of the Vlasov Equation, E. HORST; Neutron Transport in a Reactor System with Temperature Feedback, C. V. PAO; Singular Eigenfunction Analysis of Transport Problems with Spatially Dependent Cross Sections—An Overview, E. W. LARSEN; Neutral Particle Transport in Plasmas, G. C. POMRANING; Approximate methods for Exit Distribution Problems in Inhomogenous Slabs, C. T. KELLEY; A Critique of Inverse Solutions to Slab Geometry Transport Problems, N. J. MCCORMICK; A Finite Transform Approach to the Solution of Radiation Transport Equation, D. V. GOPINATH; Sound Wave Propagation in a Rarefield Gas-II: Gross-Jackson Model, T. C. CHENG and S. K. LOYALKA; Approximation Theory for a Certain Class of Operators and Some of their Applications to Transport Theory, Y. MINGZHU and Z. GUANGTIAN; On the Development of a Convergence Theory of Synthesis Methods for Solving Diffusion Equations, B. NETA and H. D. VICTORY, JR; Solution of the Transport Equation by the BIF Method, E. H. BAREISS and A. J. ANTOLAK; Generation of Neutron Transport Benchmark Problems using BEAPAC-3T, K. L. DERSTINE and E. H. BAREISS.

VOLUME 9

REACTOR NOISE—SMORN III

Differential and Whitened Correlation—Simple New Methods for Transit Time Measurements, M. EDELMANN; Possibilities of Flow-Pattern Identification by Noise Techniques, D. LUBBESMEYER; Neutronic Response to Two-Phase Flow in a Nuclear Reactor, G. KOSALY, R. W. ALBRECHT, R. D. CROWE and D. J. DAILEY; Measurement of Two Phase Flow Properties Using the Nuclear Reactor Instruments, R. W. ALBRECHT, R. D. CROWE, D. J. DAILEY, M. J. DAMBORG and G. KOSALY; PWR Primary Flow Measurements by Correlation Analysis of Nitrogen 16 Fluctuations, J. M. BOUCHET, M. BRUYERE, P. BERNARD, R. LE MEUR, B. PAPIN, A. BRILLON, J. M. FAVENNEC, J. J. LE COZ and C. PUYAL; Noise Analysis Applications Made at Rajasthan Atomic Power Station, Including Primary Coolant Flow Rate Measurements Using 16N Signal and the Cepstrum Technique of Analysis, S. S. JOSHI and K. K.

ARORA; Application of Neutron Noise Analysis to a Swimming Pool Research Reactor, K. BEHRINGER, V. H. LESCANO, F. MEIER, J. PHILDIUS and H. WINKLER; Out-of-Pile and In-Pile Temperature Noise Investigations: A Survey of Methods Results and Models, G. DENTICO, R. GIOVANNINI, M. MARSEGUERRA, R. OGUMA, N. PACILIO, S. TAGLIENTI, V. TOSI and A. VIGO; Calibration Method for Electromagnetic-Flowmeter Using Cross-Correlation of Voltage Fluctuations, A. ENDOU, F. ASAKURA, Y. MATSUNO and S. NOMOTO; Detection of Local Sodium Boiling in a Simulated LMFBR Fuel Subassembly, H. INUJIMA, T. OGINO, K. HAGA and Y. KIKUCHI; Summary of Session 1, J. B. DRAGT; Partial and Multiple Coherence in Nuclear Reactor Noise, J. B. DRAGT and B. H. BOONSTRA; Coherence Analysis of Systems with Feedback and its Application to a BWR Noise Investigation, R. OGUMA: Multivariate Signal Analysis for Process Noise Source Identification, B.-G. BERGDAHL and R. ESPEFALT; A New Approach to Reactor Noise Analysis by the Dynamic Data System (DDS) Methodology, S. M. WU and M. S. OUYANG; Modern Recognition of Temperatures Produced by Malfunctions in Fast Reactor Fuel Elements, P. G. BENTLEY and M. J. BEESLEY; On-Line Diagnosis Algorithm Based on Noise Analysis, T. TAMAOKI, K. KAWANO and M. SATO; Cause-and-Effect Analysis of Neutronic and Process Signals in a Boiling Water Reactor, M. KITAMURA and B. R. UPADHYAYA; Summary of Session 2, V. TOSI; Some Aspects of the Theory of Neutron Noise Due to Propagating Disturbances, T. KATONA, L. MESKO, G. POR and J. VALKO; Developing Noise Diagnostic Methods Based on Research Reactors: Theory and Experiment, I. PAZSIT and I. LUX; Analysis of Root-Mean-Square Temperature Noise in Fast Reactor Fuel Assembly with Local Blockage, T. TAKEDA, Y. SONODA, K. AYA and T. SEKIYA; Investigations of Sodium Boiling Detection in LMFBRs by Reactor Noise Analysis Method, OM PAL SINGH, T. M. JOHN and C. P. REDDY; Acoustic Emission Noise from Sodium Vapour Bubble Collapsing: Detection, Interpretation, Modelling and Simulation, G. DENTICO, V. PACILIO, B. PAPALIA, S. TAGLIENTI and V. TOSI; Relation Between Reactor Noise Analysis and "Not-Linear" Characteristics and Comparative Study on Interpretation of Analysed Reactor Noise, H. KATOAKA; Summary of Session 3, K. SAITO; Determination of Noise Sources and Space-Dependent Reactor Transfer Functions From Measured Output Signals Only, J. E. HOOGENBOOM, H. VAN DAM, E. B. J. KLEISS, G. C. VAN UITERT and D. VELDHUIS; Effects of Spatial Higher Harmonics and Reactivity Feedback Upon At-Power Reactor Noise Patterns, H. KONNO and K. SAITO; Study of Stochastic Reactor Kinetic Equation, Y. GOTCH; Contraction of Information and Models in Reactor Noise Analysis, K. KISHIDA; A Random-Parametric Reactor Model with Direct Feedback and Non-White Noise, O. SAKO, A. TANIGUCHI and Y. KURODA; Safety Aspects of Temperature Fluctuations During Nuclear Reactor Transients, Y. BEN-HAIM; Summary of Session 4, M. M. R. WILLIAMS; Report on the IAEA–IWGFR Specialists Meeting on "Sodium Boiling Noise Detection" 9–11 June 1981, E. J. BURTON; Off-Line and On-Line Noise Analysis for Core Surveillance in French LMFBR "Anabel", J. GOURDON and R. CASEJUANS; Advances in Signal Processing for LMFBR Diagnostic Techniques, E. J. BURTON, D. FIRTH, I. D. MACLEOD and J. A. MCKNIGHT; Functions and Structure of the Karlsruhe Subassembly Monitoring System Kasumos, M. EDLEMAN and H. MASSIER; Reactor Noise Analysis of the Experimental Fast Reactor Joyo, S. TAMURA, H. OTANI, H. TANIYAMA, T. SANDA, K. SANO and T. IKEGAMI; A General Theory of Neutron Noise in Fast Reactors and its Implications for the Interpretation of Experimental Data, M. KANTROWITZ and J. DORNING; Summary of Session 5, J. GOURDON; Neutron Noise Monitoring of Reactor Core Internal Vibrations at PWRs in Japan, Y. FUJITA and H. OZAKI; Review of Borssele PWR Noise Experiments, Analysis and Instrumentation, E. TURKCAN; Surveillance of Vibrations in PWR, F. AKERHIELM, R. ESPEFALT and J. LORENZEN; Quantitative Monitoring and Diagnosis of French PWRs' Internal Structures Vibrations by Excore Neutron Noise and Accelerometers Analysis, P. BERNARD, C. MESSAINGUIRAL, J. C. CARRE, A. EPSTEIN, R. ASSEDO and G. CASTELLO; Advances in Automated Noise Data Acquisition and Noise Source Modelling for Power Reactors, N. E. CLAPP, JR., R. C. KRYTER, F. J. SWEENEY and J. A. RENIER; Experiences with Noise Surveillance Systems in German LWRs, W. BASTL and D. WACH; Summary of Session 6, R. W. ALBRECHT; Loose Part Detection Using Acoustic Emission Detectors in NSSS, J. MARINI and D. BERNARD; Shock and Vibration Analysis on the Impact of Metal Parts for PWR Diagnosis, K. FUJITA and M. TANAKA; PWR Core Monitoring by Incore Noise Analysis, P. BERNARD, J. CLOUE, C. MESSAINGUIRAL, R. BAEYENS, P. MATHOT, J. SATINET and C. PUYAL; Neutron Noise Measurements on Bugey 2 PWR, J. MARINI, D. ROMY, J. C. SPADI, R. ASSEDO and G. CASTELLO; Low Frequency Pressure Oscillations in a PWR, G. GRUNWALD, G. HESSEL, P. LIEWERS and W. SCHMITT; Detection and Monitoring of Boiling in PWRs by Incore Neutron Noise Analysis, P. BERNARD, J. CLOUE and C. MESSAINGUIRAL; Automated Vibration Monitoring System for WWER-440 Nuclear Power Plant Diagnostics and Surveillance, E. HOLLO, P. SIKLOSSY and ZS. TÓTH; Summary of Session 7, DR. BASTL; Noise Analysis of the Dodewaard Boiling Water Reactor: Characteristics and Time History, J. H. C. V. D. VEER and N. V. KEMA; Application of Noise Analysis Methods to Monitor Stability of Boiling Water Reactors, B. R. UPADHYAYA, J. MARCH-LEUBA, D. N. FRY and M. KITAMURA; Second Transit Time in a BWR Power Plant: Experimental Evidence, A. FEDERICO, C. GALLI, C. PARMEGGIANI, R. RAGONA and V. TOSI; Investigation of the Relation Between the RMS-Neutron-Noise and Local Void Fraction in the Bubbly Flow Region of a BWR, L. MITEFF and K. BEHRINGER; Operating Experience of a BWR Plant Diagnostic System, Y. ANDO, S. KANEMOTO, F. YAMAMOTO, T. ITO, K. HAMADA and Y. HASHIMOTO; Determination of BWR Incore Power Feedback Effects by Radial Coherence Measurements, E. B. J. KLEISS, Application of Autoregressive (AR) Stability Estimation, T. MITSUTAKE, S. TSUNOYAMA and H. NAMBA; Summary of Session 8, G. KOSÁLY; Summary Report on Reactor Noise Analysis Benchmark Test, N. SUDA; Smorn-III Summary, J. HIROTA.

VOLUME 10

The Safety of CO_2 Cooled Breeder Reactors Based on Existing Gas Cooled Reactor Technology, W. B. KEMMISH, M. V. QUICK and I. L. HIRST; RETRAN Thermal–Hydraulic Analyses: Theory and Applications, L. J. AGEE; Reactor Pressure Vessel Design and Practice, Y. BANGASH; Applications of a Fracture Mechanics Model of Structural Reliability to the Effects of Seismic Events on Reactor Piping, D. O. HARRIS and E. Y. LIM; Denaturing Fissile Materials, A. DEVOLPI; Radiation Doses to the Public from the Nuclear Industry, J. H. FREMLIN and C. K. WILSON; Changes in the Nuclear Power Industry After TMI, N. J. MCCORMICK; The Dynamics of Institutional Changes Following the TMI Accident, E. L. ZEBROSKI; Impact of Post-TMI Regulations on a Nuclear-Oriented Utility, C. REED; Impact of TMI on Combustion Engineering Technical Activities, W. E. BURCHILL; Impact of the Accident at Three Mile Island on an NSSS Vendor — A Westinghouse Perspective, D. H. RAWLINGS; The Human Factor in Nuclear Power Plant Safety: Progress Since Three Mile Island, S. H. HANAUER; Nuclear Personnel Training After TMI-2: The GPUN Response, R. L. LONG, D. P. GAINES and R. A. KNEIF; Emergency Planning and Preparedness Since Three Mile Island, B. K. GRIMES, S. L. RAMOS and B. H. WEISS; The Impact of TMI Upon the Public Acceptance of Nuclear Power, B. D. MELBER.

VOLUME 11

Optical Techniques for Nuclear Reactor Inspection, B. A. TOZER; Risks Associated with Nuclear Material Recovery and Waste Preparation, R. R. FULLWOOD and R. C. ERDMANN; Containment Vessel Design and Practice, Y. BANGASH; Thermal Aspects of Radioactive Waste Burial in Hard Rock, D. P. HODGKINSON, D. A. LEVER and J. RAE; Two-Phase flow Patterns: A Review of Research Results, S. Z. ROUHANI and M. S. SOHAL; An Overview of Databanking, R. J. BRISSENDEN; An Assessment of Acoustic Emission for Nuclear Pressure Vessel Monitoring, C. B. SCRUBY and H. N. G. WADLEY.

VOLUME 12

Mechanics of Aerosols in Nuclear Reactor Safety: A Review, S. K. LOYALKA; Thermal Shock in Nuclear Reactors, A. M. CLAYTON; Modelling the Effect of Diffusion into the Rock Matrix on Radionuclide Migration, D. A. LEVER, M. H. BRADBURY and S. J. HEMINGWAY; The Ignition and Burning Behaviour of Sodium Metal in Air, R. N. NEWMAN; Post-Critical Heat Flux Heat Transfer: A Survey of Current Correlations and their Applicability, S. W. WANG and J. WEISMAN; New Developments in Nuclear Power Plant Construction, A. C. BIVENS (ed.); Overview of Information Management in the Nuclear Industry, E. L. ZEBROSKI; Nuclear Plant Data Systems—Some Emerging Directions, R. D. JOHNSON, G. B. HUMPHRESS, L. D. MCCULLOUGH and B. M. TASHJIAN; Wm H. Zimmer Nuclear Power Station Information Management System, D. RILEY, R. KANITZ and E. BURKHALTER; Paperwork Management and Nuclear Power Regulation: An Opportunity for Improvement, R. S. SCOTT; Recent Initiatives in Information Exchange Throughout the International Nuclear Community, R. L. SIMARD; PWR Nuclear Power Plant Operation and Incidents, H. PROCACCIA; The Energy Industry Identification System — An Overview, J. L. PARRIS and J. R. KOUPAL; The Role of Information Management in Nuclear Plant Operating Experience Review, W. L. LAVELLEE; Feedback of Experience from Nuclear Power Operation — A System used by the Swedish Utilities, J.-P. BENTO; Improving Training Through the Dissemination and Utilization of Operating Experience, E. UGEDO and S. SAN ANTONIO; Real Time Information Support for Managing Plant Emergency Responses, D. G. CAIN, R. J. LORD and C. D. WILKINSON.

VOLUME 13

Review of Developments in U.K. Commercial Reprocessing, G. R. PLUMB; The Management of Intermediate Level Radioactive Wastes Arising from Reprocessing Operations, A. D. ELSDEN; Highly Active Liquid Waste Management at Sellafield, P. C. UPSON; The Management of Plutonium (alpha) Contaminated Waste Materials (PCM), R. J. SILLS; The Management of Gaseous Wastes from Reprocessing Containing Volatile Fission Products, G. R. PLUMB; Nuclear Data for Nuclear Analyses — An Overview, S. PEARLSTEIN; Standard Cross-Section Data, A. D. CARLSON; The Nuclear Data of the Major Actinide Fuel Materials, W. P. POENITZ and G. DE SAUSSURE; Control Materials and Light Coolant Cross-Section Data, P. G. YOUNG and L. STEWART; Structural, Heavy Coolant, and Material Cross-Section Data, R. W. ROUSSIN; Dosimetry, Gas Production, and Activation Cross-Section Data, B. A. MAGURNO.

VOLUME 14

Engineering Aspects of Probabilistic Risk Assessment, J. VON HERRMANN and P. J. WOOD Recent Progress in the Application of the Finite Element Method to the Neutron Transport Equation, J. WOOD and M. M. R. WILLIAMS; Experimental Reactor Noise — A Review on Noise-Analytic Measurements of Thermohydraulic Parameters in Operating BWRs and their Interpretations. D. LÜBRESMEYER; Multi-Dimensional Modeling of Two-Phase Flow in Rod Bundles and Interpretation of Velocities Measured in BWRs by the Cross-Correlation Technique, G. TH. ANALYTIS and D. LÜBBESMEYER The Cost of Closing Nuclear Power Plants. J. P. STUCKER; Stochastic Aspects of Two-Dimensional Vibration Diagnostics, I. PÁZSIT, M. ANTONOPOULOS-DOMIS and O. GLÖCKLER; Editorial, M. M. R. WILLIAMS and N. J. MCCORMICK: Spent Nuclear Fuel Storage Pool Thermal Hydraulic Analysis, R. R. GAY; Applications of Nuclear Process Heat, R. SCHULTEN, K. KUGELER and W. FRÖHLING; Monte Carlo Methods for Radiation Transport Analysis on Vector Computers, F. B. BROWN and W. R. MARTIN; Problems and Experiences in Nuclear Data Processing in Developing Countries. S. GANESAN, V. GOPALAKRISHNAN and M. M. RAMANADHAN; Elements of Nuclear Reactor Fueling Theory, M. R. EGAN.

VOLUME 15

Goals of the Symposium, J. A. G. ROSÉN; Discours d'Ouverture, J. RASTOIN; Summary of Session 1; Instrumentation de Surveillance en Ligne des Reacteurs Electronucleaires, D. BENARD, J. C. CARRÉ, J. PLAIGE and P. VOILLOT; Long-Term Automated Surveillance of a Commercial Nuclear Power Plant, C. M. SMITH and R. C. GONZALEZ; Development of an Automated Diagnostic System for Boiling Water Reactor Stability Measurements, J. MARCH-LEUBA and C. M. SMITH; The Pattern Recognition Instrument as an Efficient Tool in the Field of the Permanent Surveillance of a Fast Reactor Core, M. BRUNET, M. USAI, P. MALVACHE and Y. BURAVAND; Intercomparison of Noise Analysis and Perturbation Techniques for Measuring Fast Reactor Fuel Element Performance Characteristics, M. EDELMANN, H. MASSIER, C. BERLIN and G. LE GUILLOU; Summary of Session 2; Development of Methods for Analyzing Time-Varying Characteristics of Power Reactor Noise, M. KITAMURA, T. WASHIO, K. KOTAJIMA and K. SUGIYAMA; Principle Governing the Simple Determination of Characteristic Parameters for the Supervision of Vibratory Behaviour, J. C. CARRÉ and A. EPSTEIN; Stochastic Models, Numerical Algorithms and Optimal Computerised Graphics and Decision Making Processes for Nuclear Plant Surveillance and Anomaly Detection, L. G. KEMENY; Application of Autoregressive Modelling Techniques in BWR Noise Analysis, S. KANEMOTO, Y. ANDOH, F. YAMAMOTO and N. KITAMURA; Investigation of the Applicability of Piety's On-Line PSD-Pattern Recognition Algorithm to Boiling Detection by Neutron-Noise at a Swimming-Pool Reactor, K. BEHRINGER, G. SPIEKERMANN and G. YADIGAROGLU; Progress in Fluctuation and Noise Theory: Analogies with Statistical Physics, N. PACILIO and F. CAMERINI; Summary of Session 3; Reference Signatures Obtained During Depressurization of a BWR, F. ÅKERHIELM; Report from the I.W.G.F.R. Meeting, Bologna, Italy (October 8–10, 1984), M. MOTTA (ED.); Application of Noise Analysis to the Study of the Thermal and Mechanical Behaviour During the Pre-Irradiation of a Transient Over-Power (Top-II) Fuel Pin Experiment, E. TÜRKCAN, R. OGUMA and K. HAYASHI; Noise Measurement During the In-Pile Blockage Experiment Mol 7C/4, J. ABERLE, L. KREBS, K. SCHLEISIEK and G. WEINKÖTZ; Summary of Session 4; Surveillance de l'Instrumentation Nucleaire par Analyse de Bruit, J. P. JACQUOT, C. MEUWISSE, J. DUCHENE, J. BEAUBATIE and T. WELDON; The Application of Radiation Detection Noise as an *in situ* Method of Surveillance and Performance Verification of Nuclear Instrumentation Channels for Protection Systems, D. W. MILLER, J. W. TALNAGI, S. A. ARNDT, G. S. ROWE and A. BEHBAHANI; Development of Leak Monitoring System for Pressurizer Valves, T. NAKAMURA and M. TERADA; Controle Periodique et Surveillance en Service de l'Etancheite des Soupapes de Decharge du Presuriseur a l'Aide de l'Emission Acoustique, J. ROGET, J. L. GERMAIN and J. HONORE; The Development of a BWR Main Steam Safety/Relief Valve Monitoring System, T. TSUNODA, K. SANO and H. NANBA; Summary of Session 5; In Core Coolant Flow Monitoring of Pressurized Water Reactors Using Temperature and Neutron Noise, F. J. SWEENEY, B. R. UPADHYAYA and D. J. SHIEH; Studies of the Origins of Random Burst and Anomalous Fluctuation Based on the Non-Linear Dynamical Power-Reactor Model, H. KONNO; Modeling and Diagnostic Techniques Applicable to the Analysis of Pressure Noise in Pressurized Water Reactors and Pressure-Sensing Systems, J. A. MULLENS and J. A. THIE; Two Phase Flow Investigations in a PWR, U. RINDELHARDT, G. BLUMENTRITT, P. LIEWERS, M. WERNER, G. POR and E. IZSAK; Estimation of Internal Quantities of a BWR Core Using Information on the Exit Void Fraction, M. J. DAMBORG and R. W. ALBRECHT; Summary of Session 6; The Experiences of using Neutron Noise Analysis for Vibration Behaviour of Internal Structures, K. DACH, V. KRETT, J. VAVŘIN, L. PEČINKA and J. KOTT; In-Core/Ex-Core Neutron Noise Measurements to Examine Core Internal Vibrations in an Operating PWR, D. J. DAILEY and R. W. ALBRECHT; Jet de Cloisonnement: Phenomenes Vibratoires Possibles et Effets Neutronqiues sur les Detecteurs en Coeur, P. BERNARD, CH. MESSAINGUIRAL-BRUYNOOGHE, J. GLOUÉ, C. PUYAL and R. BAEYENS; The influence of Thermohydraulic Parameters on the Dynamic Behaviour of KWU-PWR's, H.-J. WEHLING, K. KLINGER and H. STÖLBEN; Contribution of Fuel Vibrations to Ex-Core Neutron Noise During the First and Second Fuel Cycles of the Sequoyah-1 Pressurized Water Reactor, F. J. SWEENEY, J. MARCH-LEUBA and C. M. SMITH; Summary of Session 7; Control Rods Vibration Analysis in JOYO Mark-II Core, A. SHONO, S. TAMURA and N. MIZOO; Analyse des Particularites de Bruit Neutronique Liees a la Presence de Combustibles Differents, C. PUYAL, C. VINCENT, S. GROSS, R. BAEYENS, N.

JANSSENS, C. MESSAINGUIRAL-BRUYNOOGHE, J. CLOUE and G. LAGARDE; Neutron Noise Monitoring of In-Core Vibrations on China's High Flux Engineering Test Reactor, Z. MINGCHANG, Z. YIYU and S. DEGUI; Noise Analysis of Anomalous Power Fluctuations in HWRR-2, L. ZHANGLIN, C. WENHUA, Z. PINTAI, C. JINZHANG and X. GUOSHENG; Identification of Non-Linear Random Vibration of the Structural Components in Nuclear Reactors, H. KONNO and K. SAITO; Liaison Entre Vibrations d'Origine Mecanique et Fluctuations de flux Neutronique dans les R.E.P., P. BERNARD, CH, MESSAINGUIRAL.BRUYNOOGHE and J. CLOUE; Incore Reactor Noise Measurements at PWR's of VVER Type and Their Interpretation, U. KUNZE and K. MEYER; Summary of Session 8; On-Line Monitoring of a PWR for Plant Surveillance by Noise Analysis, E. TÜRKCAN; Experience d'Electricite de France dans les Techniques de Surveillance des Reacteurs a Eau Sous Pression, J. GUITTON; Some Results of Noise Measurements in a PWR NPP, G. PÓR, E. IZSÁK and VALKÓ; Recent Experience in Neutron Noise Analysis at Oconee Nuclear Station, G. P. HORNE; Experiences with Noise Analysis at Paks Nuclear Power Plant, J. VALKÓ, G. PÓR, T. CZIBÓK, E. TZSÁK, E. HOLLÓ and P. SIKLÓSSY; Fluctuations Neutroniques Observees sur les Reacteurs 900 MW and 1300 MW a Partir des Systemes de Surveillance en Exploitation, C. PUYAL, A. TRENTY and A. FERNANDES; Summary of Session 9; Application of Noise Analysis for BWR Performance Monitoring and Diagnostics, S. BERGMAN; A Review of Studies in Japan on BWR Dynamics by Model Based Noise Analysis, N. SUDA; Core Stability in Operating BWR: Operational Experience, E. GIALDI, S. GRIFONI, C. PARMEGGIANI and C. TRICOLI; Recording, Evaluation and Interpretation of Process Noise in ASEA-ATOM BWRs, J. H. BLOMSTRAND and S. A. ANDERSON; Reactivity Noise on the United Kingdom Prototype Fast Reactor, D. J. LORD and D. S. CROWE; On-Line Noise Monitoring at the Fast Flux Test Facility, J. A. MULLENS, J. A. THIE and L. R. CAMPBELL; Le Bruit Neutronique sur les Reacteurs a Neutrons Rapides Francais: Bilan et Perspectives apres Dix Annees d'Experience sur le Reacteur Phenix, G. LE GUILLOU, J. C. COLONGES and J. PONT; Summary of Session 10; Report of the First United States Conference on Utility Experience with Neutron Noise Analysis, D. N. FRY, G. P. HORNE and C. W. MAYO; The Influence of Noise Diagnostic Techniques on the Safety and Availability of Nuclear Power Plants, W. BASTL, R. SUNDER and D. WACH: Experience with an On-Line Surveillance System in LWR's, C. GRONDEY, P. GEBURECK, J. RUNKEL and D. STEGEMANN; Summary of Session 11; Loose Parts Signal Theory, C. W. MAYO; Simulation Experiments of Loose Parts and Abnormal Vibration of Core Internals, K. FUJITA, M. TANAKA and S. ISHIKAWA; Methods of Metallic Loose Parts Location and Impact Energy Estimation from Information on Reference Impact Sounds, S. IZUMI, Y. MICHIGUCHI and M. SENOH; A Signal Processing Method for Improved Loose Parts Detection and Diagnosis, J. P. THOMPSON and J. W. QUINN; Studies on the Loose Part Evaluation Technique, T. TSUNODA, T. KATO, K. HIRATA, Y. SEKIDO, K. SENDAI, M. SEGAWA, S. YAMATOKU, T. MORIOKA, K. SANO and O. TSUNEOKA; On-Line Loose Parts Monitoring False Alarm Discrimination, G. L. ZIGLER, G. A. MORRIS and R. C. ROBERTS; Source Location and Mass Estimation in Loose Parts Monitoring of LWR's, B. J. OLMA; Parameters used for the Detection and Location of Loose Parts on the French PWRs in Operation, C. PUYAL, A. FERNANDES and X. CHARPENTIER; Results of Loose Parts Monitoring Tests in LMFBR-Structures, H. MÖLLERFELD, K. FÖRSTER and J. VOSS; Summary of Session 12; Calculation and the 'Seeing Length' of an Incore Neutron Detector in a BWR, G. KOSÁLY and R. SANCHEZ; Utilisation of Two-Phase Flow Velocity Measurements in BWRs for Monitoring and Verification of Advanced Sub-Channel Analysis Codes, G. TH. ANALYTIS and D. LÜBBESMEYER; Modelling the Source Term of Neutronic Fluctuations in BWRs by Synthetic Signals, D. LÜBBESMEYER and G. TH. ANALYTIS; Effects of Space Dependent Feedback on the Detector Field of View, M. ANTONOPOULOS-DOMIS and V. CHATZIATHANASSIOU; Investigation of Pressure Oscillations in a PWR Primary Circuit, G. GRUNWALD, K. JUNGHANSS and P. LIEWERS; Cross-Sectional Identification of Two-Phase Flow by Corrleation Techniques, I. PÁZSIT and O. GLÖCKLER; Theoretical Investigation of the Low-Frequency Pressure Fluctuation in PWRs, I. NAGY and T. KATONA; Investigation of the Noise Source Characteristics Related to the Theory of Subcooled Boiling Neutron Noise, T. KATONA; Independent Numerical Studies via a Multivariable Coupled Neutron-kinetic-Thermohydraulic Reactor Model, R. KOZMA and L. MESKÓ; Summary of Session 13; Experience with the Operation of an On-Line Primary Cooling Flowmeter System Based on N-16 Noise Analysis at Paks PWR, S. HORÁNYI, D. PALLAGI, T. HARGITAI and S. TÓZSÉR; Calibration Method of Electromagnetic-Flowmeter for LMFBR Using Root Mean Square Frequency Weighted by Power Spectral Density of Output Voltage Fluctuations, A. ENDOU, S. INOUE, K. SETOGUCHI, K. MIYAGUCHI and J. ENDO; Velocity Profile and Flow Measurements in Liquid Sodium by Signal Correlation of Fast Intrinsic Thermocouples and Electromagnetic Flowmeters, W. REIMCHE, D. STEGEMANN and M. MONTES; Experience with Incore Neutron and Gamma Detectors for BWR Coolant Velocity Measurements, E. B. J. KLEISS, W. J. OOSTERKAMP and W. H. M. NISSEN; Water Flow Measurement Using Ultrasonic Signal Cross Correlation Applications to Hydraulic Circuits of Nuclear Reactors, D. BENARD, C. MOLLOT, M. BESLOT and J. MALMASSON; Evaluation du Debit de Sodium par Analyse des Fluctuations Induites, J. M. PARENT; Summary of Session 14; Boiling Detection Experiments by Acoustic Analysis Applying Linear Discriminant Function, K. KUDO, M. OHTA and T. OHSAWA; Noise Investigation on Boiling Detection in a Simulated MTR-Type Fuel Assembly, J. E. HOOGENBOOM, B. H. VAN MEULENBROEK, J. VAN DAM and E. B. J. KLEISS; Investigation of Detection of Coolant Nucleate Boiling Using Acoustic Noise Technique, A. YIYU, Z. MINGCHANG, L. GUIPING and C. ZHIMO; Instrumentation Method and Analysis of Incore Coolant Temperature Fluctuation due to Bubbly Flow, S. IIDA, H. HISHIDA and T. SEKIYA; Interpretation of Neutron Detector Signals During the PBF Severe Fuel Damage Scoping Test, R. D. CROWE and R. W. ALBRECHT; Analysis of Root-Mean Square Temperature Noise in FBR Wire-Spacered Assembly with Local Blockage, T. TAKEDA, S. OHTA, T. YOSHIYUKI and T. SEKIYA; Sodium Boiling Detection by Neutron Noise Analysis on the French Breeder Reactor: State of Research and Development, G. LE GUILLOU and C. BERLIN; Analytical Approach to Temperature Noise by Extending the Eddy Diffusivity Hypothesis, D. FIRTH; Summary of Session 15; Time-Domain Analyses of Reactor Noise Signals, R. F. SAXE; Application of AR Model to Reactor Noise Analysis, K. KISHIDA, S. YAMADA and K. BEKKI; Multivariate ARMA

Modeling with Spline Functions for Reactor Noise, Y. KURODA, H. UCHIDA and Y. OHMASA; Analysis of Time-Varying Characteristics of Signals from Borssele Reactor, E. TÜCKAN and M. KITAMURA; Application of an Improved Multivariable Noise Analysis Method to Investigation of PWR Noise; Signal Transmission Path Analysis; R. OGUMA and E. TÜRKCAN; Computer Aided System Diagnostic With an Incomplete Learning Set, B. DÜBUISSON, M. USAI and P. MALVACHE; Diagnosing the Vibrating Behaviour of the PWR Internal Structures Using Expert Systems Techniques and Algorithmic Treatment, J. C. CARRÉ, R. J. GIBERT and A. KAVENOKY; Application de l'Intelligence Artificielle au Projet de Systeme de Detection et de Diagnostic Base sur l'Analyse des Bruits, G. LE GUILLOU, P. MALVACHE, S. HIMBAUT and H. PHAM; Comments on Practical Application of Autoregressive Signal Analysis to PWR NPP Noise Data, G. PÓR, I. LUX and L. MESKÓ; Concluding Session—I; Surveillance par Fluctuations des Reacteurs Nucleaires a Eau Pressurisee du Parc Francais—Domaines d'Application et Perspectives, P. BERNARD, and A. BRILLON; Concluding Session—II; Summary of Session 16, P. BERNARD; Comparative Study of Measurement Techniques for Coolant Transit Times in a Boiling Water Reactor Using Noise Signals of LPRMs, S. S. JOSHI, K. K. ARORA and R. V. KOPARDE; A Theoretical Study of Sodium Boiling Detection in LMFBRs by Neutron Noise Analysis Method, OM PAL SINGH, T. M. JOHN, C. P. REDDY and A. K. JENA; Applications of Noise Analysis Made at Tapapur Atomic Power Station (BWR) for Vibrations, Transit Time, Coolant Flow Rate in the Recirculation Loop Using ^{16}N Signal; and Neutron Noise Measurements at Madras Atomic Power Station (PHWR), S. S. JOSHI, K. K. of the Statistical Error ARORA and R. V. KOPARDE; About Evaluation of Transit Time Cross-Correlation Measurement, B. V. KEBADZE and J. O. KOMISSAROV; Short French–English Glossary/Petit Lexique Francais–Anglais, J. C. CARRÉ and P. NAGEL.

VOLUME 16

PWR Steel Pressure Vessel Design and Practice, Y. BANGASH; The Significance of Corrosion Products in Water Reactor Coolant Circuits, G. C. W. COMLEY; The Radiolytic Corrosion of Advanced Gas-Cooled Reactor Graphite, B. T. KELLY; Numerical Solution of Neutron Kinetics Equations Using A-Stable Algorithms, J. DEVOOGHT and E. MUND; Radiolytic Graphite Oxidation, J. V. BEST, W. J. STEPHEN and A. J. WICKHAM; Introduction, M. M. R. WILLIAMS; The Present Status of Fast Reactor Physics: Blanket Physics, J. HIROTA and T. INOUE, The Present Accuracy of Physics Characteristics of Unirradiated Fast Reactor Cores, H. KUSTERS and S. PILATE; Current Status of Fast Reactor Physics Reactivity Coefficients, L. G. LESAGE, M. J. LINEBERRY and H. F. MCFARLANE; The Burn-up and Fuel Cycle Aspects of LMFBR Physics Assessment, J. BOUCHARD, P. HAMMER and M. SALVATORES; Physics of Fast Reactor Control Rods, J. L. ROWLANDS.

VOLUME 17

Some Topics in Nucelar Aerosol Dynamics, Dynamics, M. M. R. WILLIAMS; Fusion Reactors Blanket Nucleonics, E. GREENSPAN; Reactor Disassembly Activities at Three Mile Island Unit Two, H. M. BURTON and R. L. FREEMERMAN; Acoustical Environment of Gas-Cooled Nuclear Reactors, R. D. BLEVINS; Safety Goals for Nuclear Power Plant Regulations, S. LEVINE and F. T. STETSON; Quantifying Reactive Proliferation Risks from Nuclear Fuel Cycles, P. SILVENNOINEN and J. VIRA; Nuclear Regulation in Transition, J. P. TOMAIN; Progress in Nodal Methods for the Solution of the Neutron Diffusion and Transport Equations, R. D. LAWRENCE; Assembly Homogenization Techniques for Light Water Reactor Analysis, K. S. SMITH.